## **PRODUCT INFORMATION PACKET**

Model No: TCA18P4A1111GAC010 Catalog No: TCA18P4A1111GAC010 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 225S Frame, TEFC



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Product Information Packet: Model No: TCA18P4A1111GAC010, Catalog No:TCA18P4A1111GAC010 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 225S Frame, TEFC

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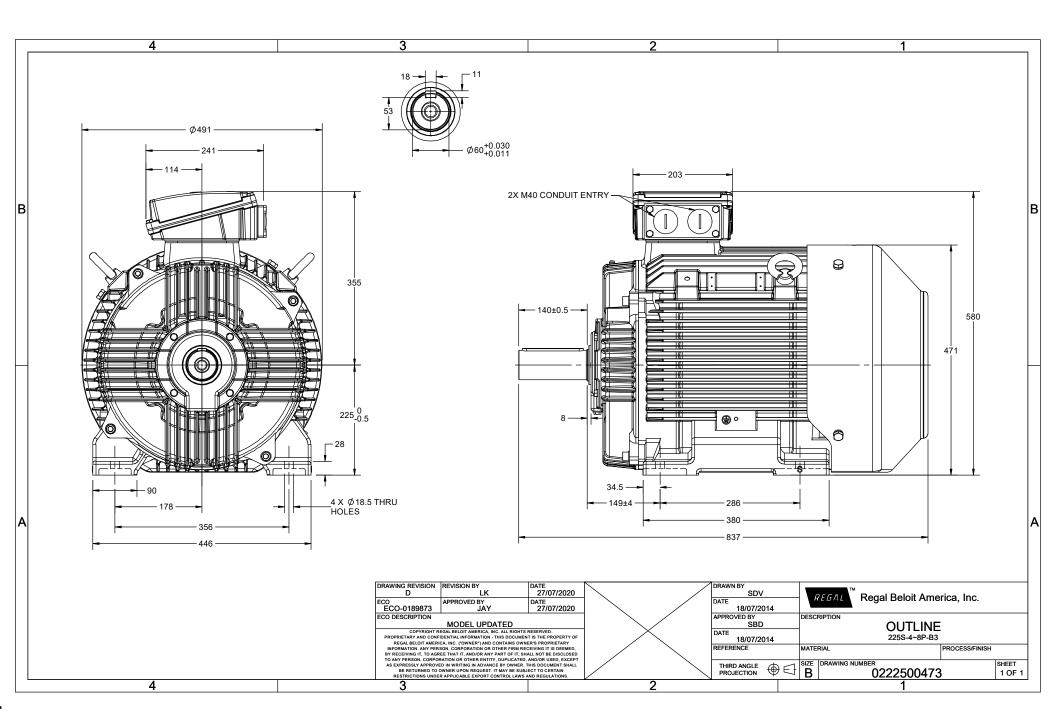
### Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW
Frequency	50 Hz	Voltage	400 V
Current	38.5 A	Speed	738 rpm
Service Factor	1	Phase	3
Efficiency	90.1 %	Power Factor	0.77
Duty	S1	Insulation Class	F
Frame	225S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213
UL	Νο	CSA	No
CE	Yes	IP Code	55
Efficiency Class	IE3		

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line		
Poles	8	Rotation	Bi-Directional		
Mounting	B3	Motor Orientation	Horizontal		
Drive End Bearing	C3	Opp Drive End Bearing	C3		
Frame Material	Cast Iron	Shaft Type	Keyed		
Overall Length	837 mm	Frame Length	400 mm		
Shaft Diameter	60 mm	Shaft Extension	140 mm		
Assembly/Box Mounting	Тор				
Connection Drawing	8442000085	Outline Drawing	0222500473		

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# **TerraMAX**<sup>®</sup>

#### Model No. TCA18P4A1111GAC010

U Δ/Y f	Р	Р	I	n	Т	IE		% EFF a	t load	ł	PF	at lo	bad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(V) Conn [H	z] [kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400 Δ 50	) 18.5	25	38.5	738	241.24	IE3	-	90.1	90.1	90.5	0.77	0.72	0.59	5.2	1.7	2.3
Motor type			TCA				De	gree of	protecti	on				IP 55		
Enclosure							Mo	ounting	type					IM B3		
Frame Material	ame Material Cast Iron						Co	oling me	ethod					IC 411		
Frame size			2255				Mo	otor wei	ght - ap	prox.				371		kg
Duty			S1				Gro	oss weig	ht - app	rox.				402		kg
Voltage variation *	bltage variation * ± 10%						Mc	otor iner	tia		0.8781			kgm <sup>2</sup>		
Frequency variation	equency variation * ± 5%					Loa	ad inerti	а				Customer to Provide				
Combined variation	า *		10%				Vib	ration l	evel					2.2		mm/s
Design			Ν				No	Noise level ( 1meter distance from motor)					-)	61		dB(A)
Service factor			1.0				No	No. of starts hot/cold/Equally spread						2/3/4		
Insulation class			F				Sta	Starting method						DOL		
Ambient temperatu	ure		-20 to +	40		°C	Тур	Type of coupling						Direct		
Temperature rise (I	oy resistar	nce)	80 [ Class	5 B ]		К	LR	LR withstand time (hot/cold)						15/30		S
Altitude above sea	level		1000			meter	Dir	Direction of rotation						i-direction	al	
Hazardous area clas	ssification		NA				Sta	ndard r	otation				Cloc	kwise form	n DE	
Zone classif	ication		NA				Pai	nt shad	e					RAL 5014		
Gas group			NA				Acc	cessorie	s							
Temperatur	Temperature class NA						Acc	essory -	- 1				PTC 150°C			
Rotor type	otor type Aluminum die cast						Accessory - 2					-				
Bearing type			Anti-friction ball				Accessory - 3					-				
DE / NDE bearing		6	313 C3/6	213 C3			Ter	minal b	ox posit	ion				TOP		
Lubrication method	ł		Regreasa	ble				iximum	•		luit size	1R	x 3C x 5	50mm²/2 x	M40 x 1.5	
Type of grease		CHEVE	RON SRI-2 o	r Equiva	lent			xiliary te						NA		
,,								. , .								

 $I_{\text{A}}/I_{\text{N}}$  - Locked Rotor Current / Rated Current

 $T_{\rm K}/T_{\rm N}$  - Breakdown Torque / Rated Torque

 $\rm T_A/\rm T_N$  - Locked Rotor Torque / Rated Torque

#### NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

\* Voltage, Frequency and combine variation are as per IEC60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values. Aus/Nz Brazil India Global IEC Efficiency Europe China GB 18613-2012 Grade 2 -IEC: 60034-30 Standards --\_

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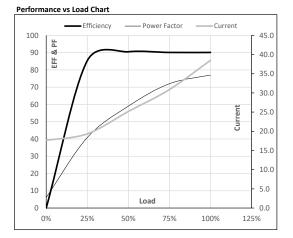


Model No. TCA18P4A1111GAC010

Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	18.5	25.0	38.5	738	24.60	241.24	IE3	40	S1	1000	0.8781	371

#### Motor Load Data

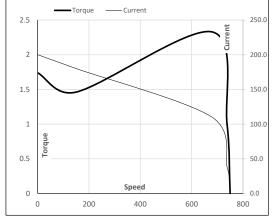
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	17.6	19.3	25.2	30.9	38.5	
Torque	Nm	0.0	59.6	119.6	180.1	241.2	
Speed	r/min	750	747	744	742	738	
Efficiency	%	0.0	85.3	90.5	90.1	90.1	
Power Factor	%	6.1	40.8	59.0	72.0	77.0	



#### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	150	679	738	750	
Current	А	200.1	180.1	110.2	38.5	17.6	
Torque	pu	1.7	1.5	2.3	1	0	

Starting Characteristics Chart



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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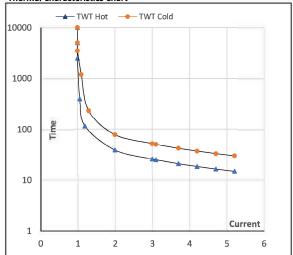
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	18.5	25.0	38.5	738	24.60	241.24	IE3	40	S1	1000	0.8781	371

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	l <sub>3</sub>	I <sub>4</sub>	۱ <sub>5</sub>	LR
TWT Hot	s	10000	39	26	20	18	16	15
TWT Cold	s	10000	78	52	39	36	32	30
Current	pu	1	2	3	4	4.5	5	5.2

Thermal Characteristics Chart



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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